

A map of the Gulf of Mexico region, showing the coastline of the United States and Mexico. The Gulf of Mexico is highlighted in a light blue color, while the surrounding landmasses are in shades of green and brown. The text is overlaid on the map.


Evolving Partnerships and Processes for Beneficial Use in Mississippi

Gulf State Coast Zone and NERR Meeting

Lacombe, LA

February 26th, 2014

**George Ramseur, Mississippi Department of Marine
Resources**

A map of the Gulf of Mexico region, showing the coastline of North America and Central America, with the Gulf of Mexico in the center. The map is used as a background for the text.

Gulf of Mexico Alliance

Habitat Conservation and Restoration Team
Regional Sediment Management Initiative
Gulf Regional Sediment Management Master Plan
(GRSMMP)

- **GRSMMP Collaborators**

- U.S. Army Corps of Engineers
- U.S. Geological Survey
- EPA
- NOAA
- The Gulf of Mexico Foundation
- The Nature Conservancy
- Minerals Management Service
- U.S. Fish and Wildlife Service
- Academia

The “BUG”

- **Co-Lead Agencies:** USACE; Mobile District; Point of Contact: Mike Malsom MDMR; Point of Contact: George Ramseur

- **Steering Committee:** Mike Beiser (MDEQ), John Bowie (EPA), Margaret Bretz (SOS), Jenny Jacobsen, Nate Lovelace (USACE), Paul Necaïse (USFWS), Ryan Hendren, Mark Thompson (NOAA/NMFS).

- **Agencies & Government:**

- Alabama Department of Conservation and Natural Resources

- Hancock County Port and Harbor Commission

- Mississippi Congressman Palazzo’s Office

- Mississippi Department of Environmental Quality (MDEQ), Office of Pollution Control

- Mississippi Department of Wildlife Fisheries and Parks, Museum of Natural Science

- Mississippi Secretary of State’s Office

- Mississippi State University/ Grand Bay NERR

- National Oceanic and Atmospheric Administration (NOAA)

- Habitat Conservation Division,

- Protected Resources Division

- Office of Coastal Survey

- Coastal Services Center

- Port of Pascagoula

- Senator Cochran’s Office

- Senator Wicker’s Office

- U.S. Environmental Protection Agency

- U.S. Fish and Wildlife Service

- USM/Gulf coast Research Laboratory

- **Private & NGO:**

- Anchor, QEA

- Bean Companies

- Chevron Pascagoula

- CH2M Hill

- Filtrex Land and Improvement Systems

- Ingalls, Pascagoula

- ORA Technologies

- VT Halter Marine, Pascagoula

FINAL Master Plan for the Beneficial Use of Dredged Material for Coastal Mississippi

Prepared by CH2MHILL for the
**Gulf of Mexico Alliance/Habitat Conservation
and Restoration Team**
in cooperation with
Mississippi Department of Marine Resources
Submitted to the
Gulf of Mexico Foundation
in accordance with
National Oceanic Atmospheric Administration
Cooperative award # NOAA GOMA 2003



Prepared by:
CH2MHILL.

May 2011

VERSION 1.0

FINAL Project Management Plan for Selected Beneficial Use Projects Along Coastal Mississippi

Prepared by CH2MHILL for the
**Gulf of Mexico Alliance/Habitat Conservation
and Restoration Team**
in cooperation with
Mississippi Department of Marine Resources
Submitted to the
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Cooperative award # NOAA GOMA 2003

CH2MHILL
September 2011
PROJECT # 1104-001002



Marsh Ecosystem Restoration through Beneficial Use

Mississippi's BU Program

Location: Mississippi

Beneficial Use (BU) FACTS:

- MS loses approximately 200 acres of marsh and related habitat annually.
- MS dredges approximately 5-8 million cubic yards annually (enough to fill about 75 Comet Collies).
- TX, AL and LA all have extensive and active programs for Beneficial Use of dredge material to restore marsh.
- NOAA studies have constructed marshes can be 70% as productive as natural ones and that they can float 12 to 150 times as productive as nonprodual and shallow water channels.

MISSISSIPPI CODE BENEFICIAL USE AMENDMENT:

Effective July 1, 2010, Section 49-27-61 of the Mississippi Code (1972 was amended to add, rest participation in the local use of dredge materials program. The revisions include the mandatory participation in beneficial use programs on permitted activities exceeding over 2500 cubic yards, provided the material is suitable and a site is available.

Frequently asked questions:

Q. Why do we need to restore or create marsh habitat?

A. Tidal marsh is rapidly turning to open water due to increased impacts of development, shipping channel maintenance, and other activities as well from more natural processes such as erosion, storms and sea level rise.

Q. Why use dredged materials?

A. It is important that the material be placed in an application that will dredged marsh to increase ecosystem function and habitat suitability. Also, this material, that would have historically replenished the tidal marsh ecosystem, is a logical choice for use in restoration.

Q. Are the dredged materials clean and safe for environmental use?

A. Yes, all materials that are used for marsh creation are rigorously tested for contaminants before reaching any water body. The most important aspect of these projects is creating healthy and viable habitats for wildlife and human use.

For additional information please contact
DMR's Office of Coastal Zone Management
228.374.5000



Marsh Ecosystem Restoration through Beneficial Use

BU Basics

Mississippi has lost thousands of acres of tidal marsh that it couldn't afford and didn't need to lose. Normal dredging activity in the State produces enough clean material to restore these wetlands in 10 to 20 years. This means we can recover habitats needed for clean water, recreation, storm protection and nurturing our seafood. This is also about our economy, particularly commercial and recreational fishing as well as our ports and related industries.

Concerns:

- Mississippi has lost about 16,000 acres of coastal habitat since 1950.
- Our shoreline loss rate has exceeded only by Louisiana's.
- Some of our marshes are recovering at more than \$111 per year.
- Marsh loss directly impacts shrimp, oysters and blue crab fisheries.
- A key habitat for trout, catfish and flounder is being eliminated.
- Louisiana's marsh loss impacts fisheries in Mississippi.

Recovery:

- Mississippi dredges about 5 to 8 million cubic yards annually.
- 5 to 8 million cubic yards can restore 1000 acres of marsh annually.
- This material is worth \$10 to \$110 million for Louisiana annually.
- Most of this material is still being launched away in "disposal areas".
- BU sites can be more economical than disposal areas.

Needs:

- Resources for careful planning, surveying and permitting of new BU sites.
- A catalog of BU sites in each coastal county to be ready as dredge material becomes available.
- Funding to implement BU sites once they are permitted.
- Outreach to help access RESTORE Act funding.
- Despite the State BU Law, we have little BU capacity at this time.

Success:

In just 3 years, without any dedicated funding, Mississippi's BU Program, along with the Mississippi Beneficial Use Group (BUEG), developed seven major public-private projects. These include two projects on Deer Island with the Port of Gulfport as well as an upcoming major restoration of Round Island with V.T. Haller-Michine.

Bottom:

Mississippi has the capacity to fully restore decades worth of lost habitat in just a few short years. We did so this by improving our management of a key resource, dredged materials. Dedicating dredged materials to BU will be a win for the environment as well as our tourism-dependent economy.



2000 foot loss in 60 years

1969

Current

1953

23 feet per year loss from 1953 > 1969

31 feet per year loss average since 1969

1507 ft

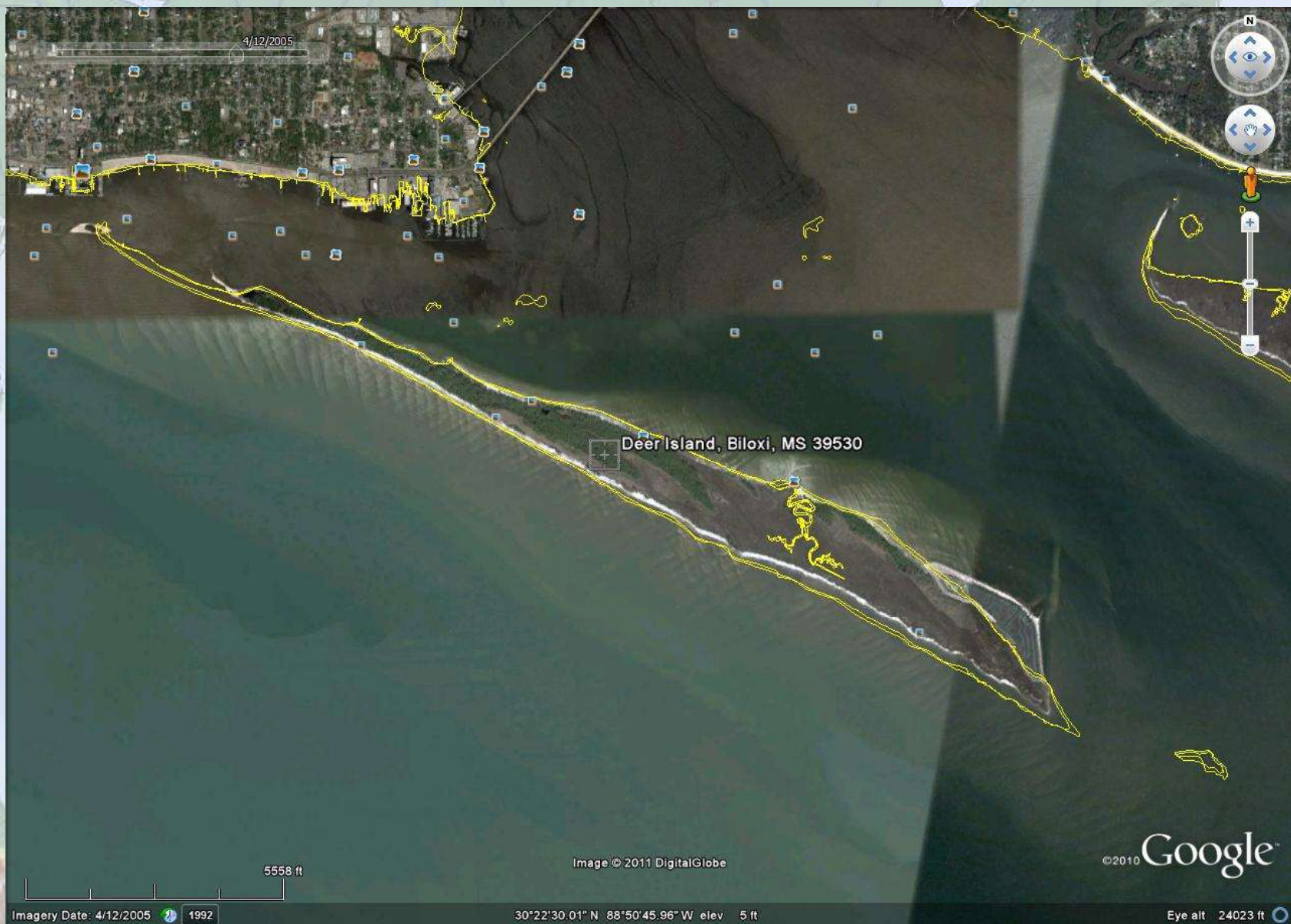
Image © 2013 TerraMetrics

Google earth

Imagery Date: 10/29/2012

30° 11' 06.48" N 89° 26' 50.39" W elev 0 ft

Eye alt 6520 ft



Deer Island circa 2003.

Deer Current

Feb. 2014

Division St

Oak St

Beach Blvd

90

Bienville Blvd

Shearwater Dr

Google earth

© 2013 Google
Image NOAA

N

1 mi







LIGHT STATION.

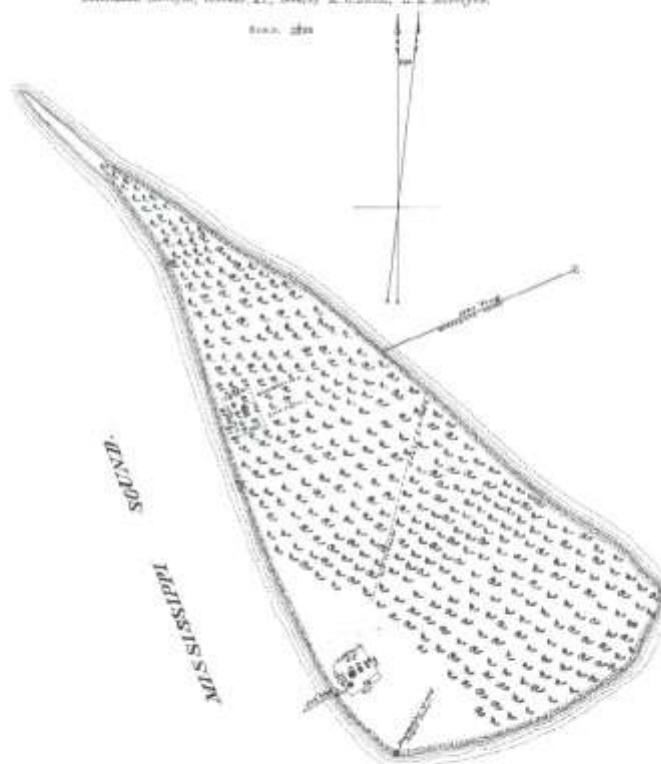
MISS.

Lat. 24° 17' - 25° 24'
Long. 84° 33' - 87° 00'

Time Performed	
Time Performed by	
Time Performed by, when in use	1252
When reliable or accurate	1218
Time of Expiration by H_2O (Kilowatt 22199) (Kilowatt 22199)	
Time of Expiration	1227

Recreation Surveyed, October 21, 1946, by A. C. SMITH, D. E. Sweeney.

516/517



● 重慶市地方志編纂委員會

[illegible][illegible]

W. B. Allen
W. B. Allen

M. A. K. K.

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8-2A-10

8th Dist.

2 R. with large loss of 10 Nov. '96 -
Feb 20 - '96 -



Image USDA Farm Service Agency



Image © 2013 TerraMetrics

30°17'46.13" N 88°35'34.72" W elev 0 ft

Google earth

Eye alt 15561 ft



place materials starting here



and here

Greenwood Island



open dike here



Imagery Date: 3/13/2013

© 2013 Google

30°20'07.09" N 88°31'05.86" W elev 0 ft

Google earth

Eye alt 4678 ft





Ongoing NERR Collaboration

- SLR Modifying Weir Research with Weeks Bay NERR



New “Intra-Agency” Efforts

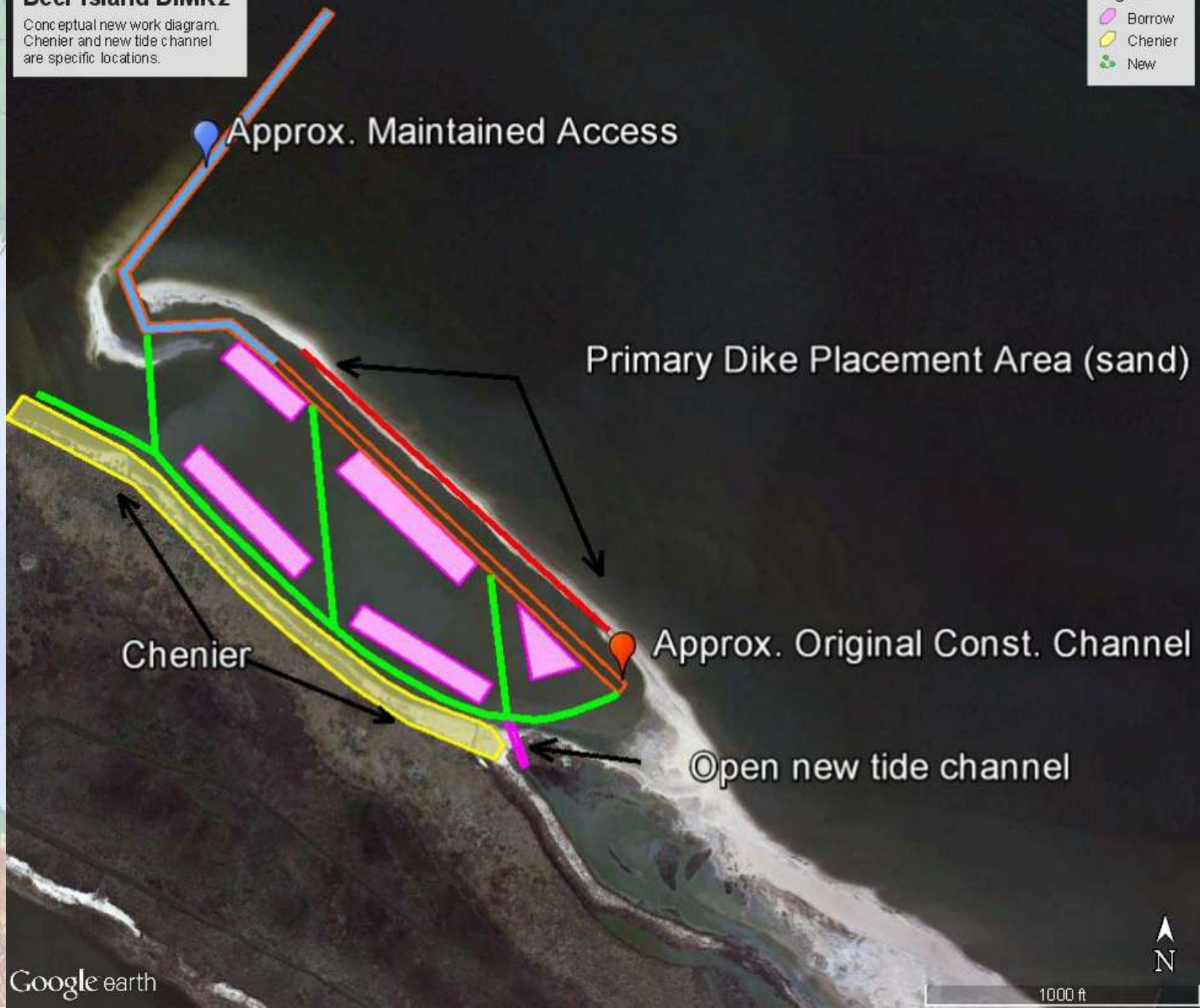
- Dear BUG,
- **Our regular BUG meeting will not be held this month!**
-
- *However*, in our usual location and time slot (10 til noon, Wednesday, February 12th) MDMR will hold a working meeting that includes representatives from our Fisheries and Coastal Zone Management groups to look at habitat restoration and its relationship to our fisheries and the communities that depend on them.
-
- If any of you have a particular interest in this subject, you are welcome to attend. If anyone has an interest in calling in, please let me know.
-
- We will have a report of these discussions the next regular BUG which is scheduled for March 12th, 2014.
-
- Thank you,
-
- George Ramseur

Deer Island DIMR2

Conceptual new work diagram.
Chenier and new tide channel
are specific locations.

Legend

- Borrow
- Chenier
- New



61290

11375_1

Chart Scale Ranges

- < 1:25,000
- 1:25,001 – 1:50,000
- 1:50,001 – 1:120,000
- 1:120,001 – 600,000
- 1:600,001 – 10,000,000

611

Investigation Area

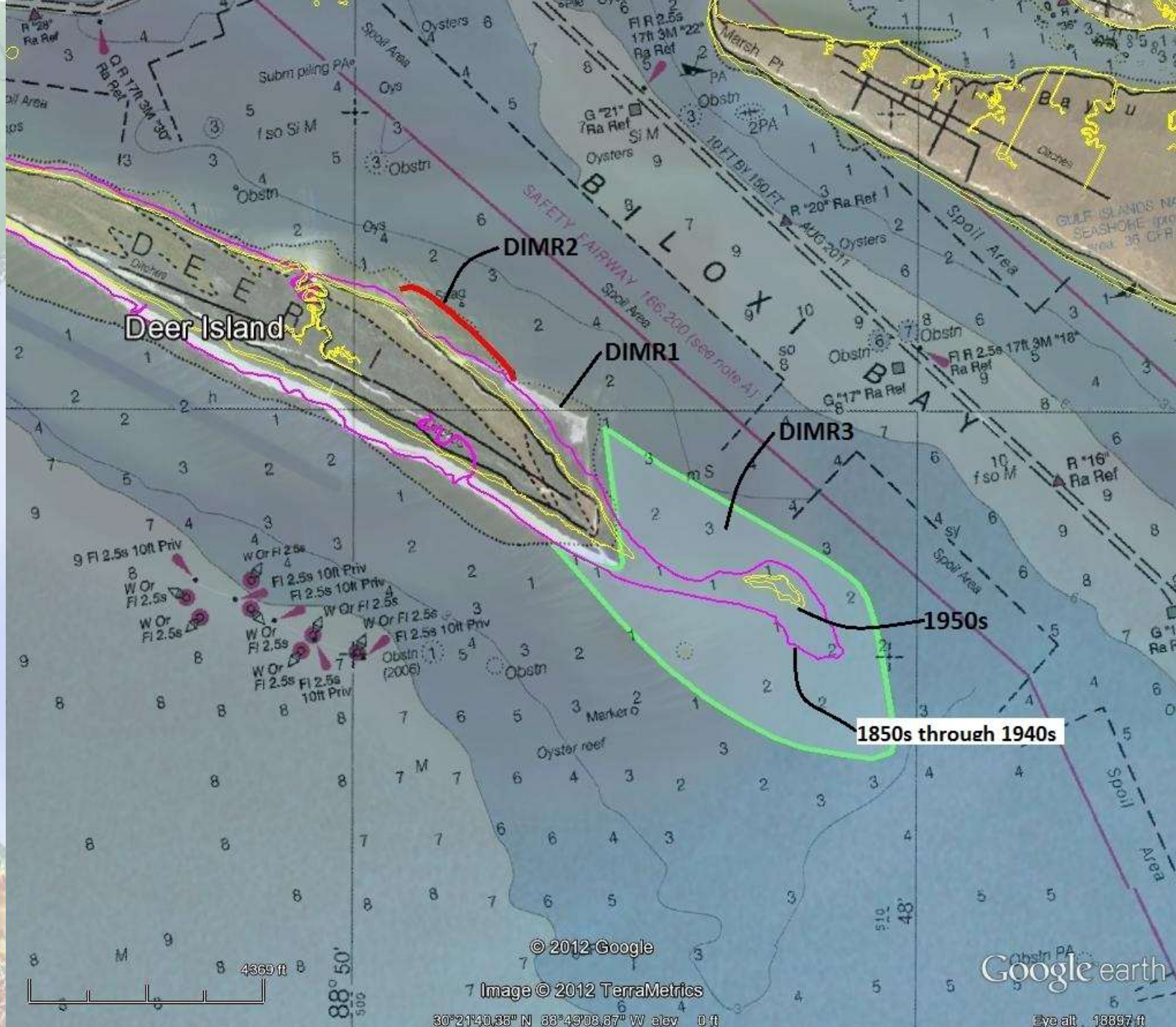
Not for navigation

Google Earth

Image NOAA

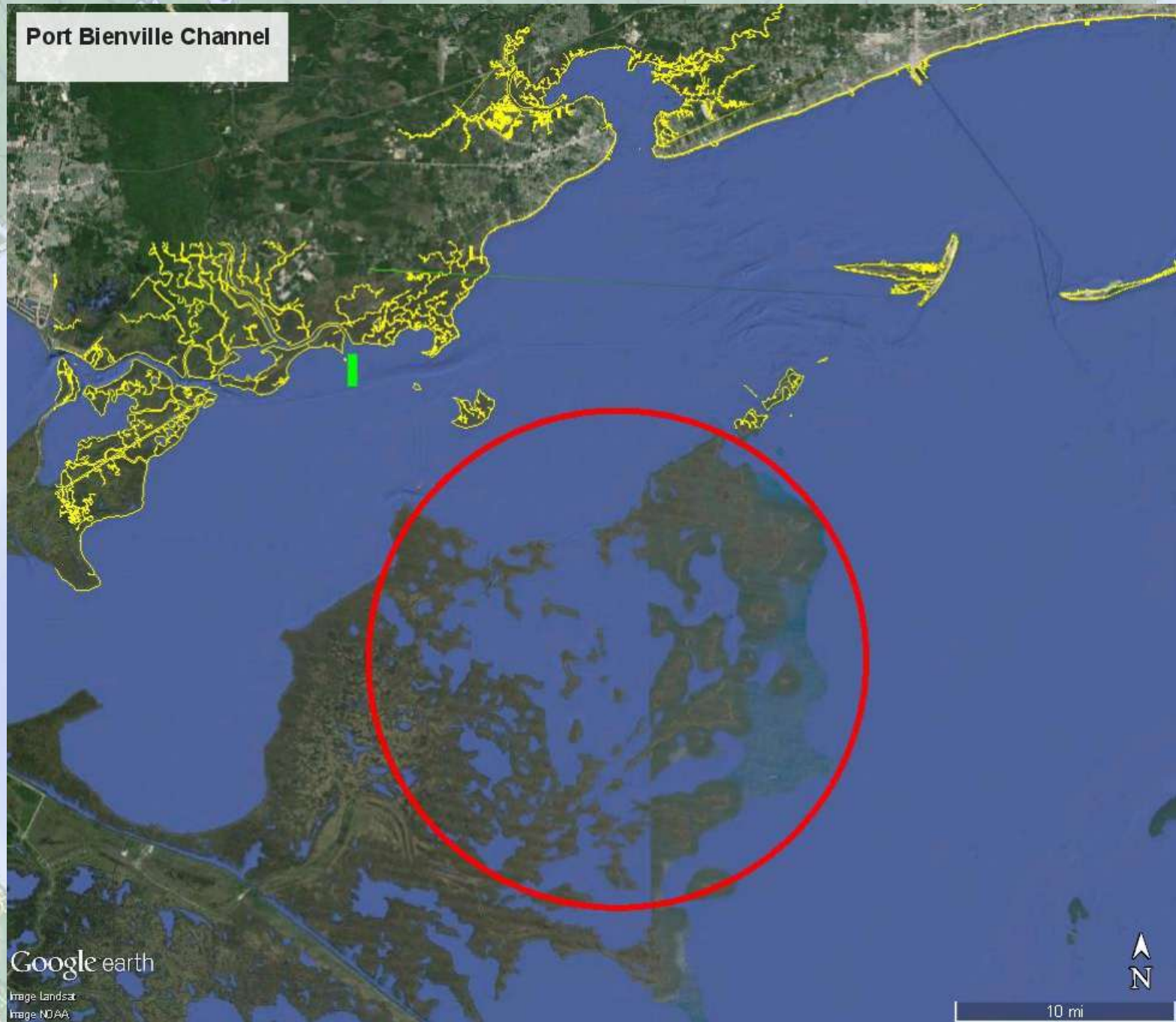
© 2013 Google

4 mi





Port Bienville Channel



NOAA
FISHERIES
SERVICE



Questions?

